## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
MI22-2663	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/)	rear) (Earliest) Priority Date (day/month/year)
PCT/US2004/027898	26/08/2004	04/09/2003
Applicant		
MICRON TECHNOLOGY, INC.		
This International Search Report has been according to Article 18. A copy is being tra		ning Authority and is transmitted to the applicant
This International Search Report consists	of a total of shee	ts.
X It is also accompanied by	a copy of each prior art document cite	ed in this report.
Basis of the report     With regard to the language, the language in which it was filed, unline the second se	international search was carried out o ess otherwise Indicated under this Ite	n the basis of the international application in the n.
The International this Authority (Au		a translation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequence o	dsclosed in the international application, see Box No. I.
2. Certain claims were fou	nd unsearchable (See Box II).	
3. Unity of invention is lac	king (see Box III).	
4. With regard to the title,		
X the text is approved as su	ibmitted by the applicant.	
the text has been establis	shed by this Authority to read as follow	s:
,	- 4	
	•	•
5. With regard to the abstract,		·
	abmitted by the applicant.	
the text has been established	shed, according to Rule 38.2(b), by thi	s Authority as it appears in Box No. IV. The applicant onal search report, submit comments to this Authority.
6. With regard to the drawings,		·
a. the figure of the drawings to be p	published with the abstract is Figure N	0
as suggested by	the applicant.	
as selected by th	is Authority, because the applicant fai	ed to suggest a figure.
	is Authority, because this figure better	characterizes the invention.
b. none of the figures is to b	e published with the abstract.	

Form PCT/ISA/210 /first sheet) (January 2004)

#### INTERNATIONAL SEARCH REPORT

...ernational application No.

PCT/US2004/027898

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A method for forming double-sided capacitors for a semiconductor device includes forming a dielectric structure (86) which supports capacitor bottom plates (110) during wafer processing. The structure is particularly useful for supporting the bottom plates during removal of a base dielectric layer (84) to expose the outside of the bottom plates to form a double-sided capacitor. The support structure further supports the bottom plates during formation of a cell dielectric layer (200), a capacitor top plate (202), and final supporting dielectric (204). An inventive structure is also described.

Form PCT/ISA/210 (continuation of first sheet (3)) (January 2004.

#### INTERN TIONAL SEARCH REPORT

Inte onal Application No PCT/US2004/027898

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L21/8242 H01L27/108 H01L21/02

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\frac{7}{100}$  H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical search terms used)

#### EPO-Internal

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/086479 A1 (REINBERG ALAN R) 4 July 2002 (2002-07-04) paragraphs '0020! - '0033!; figures 2-11	1-5,13, 14
x	US 6 180 450 B1 (DENNISON CHARLES H ET AL) 30 January 2001 (2001-01-30) column 4, line 29 - column 7, line 53; figures 1-9	9-12, 17-22
x	US 5 340 763 A (DENNISON ET AL) 23 August 1994 (1994-08-23) column 1, line 51 - column 5, line 46; figures 1-10	17-22
X	DE 44 47 804 C2 (MICRON TECHNOLOGY, INC.) 24 January 2002 (2002-01-24) paragraphs '0006! - '0020!; claim 1; figures 1-4	17-22
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Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular refevance.  "E" earlier document but published on or after the international filling date.  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified).  "O" document referring to an oral disclosure, use, exhibition or other means.  "P" document published prior to the International filling date but tater than the priority date claimed.	<ul> <li>"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the Invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novet or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"S" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
18 February 2005	28/02/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswrijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax. (+31-70) 340-3016	Neumann, A

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#### INTERN" TIONAL SEARCH REPORT

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	US 2002/163026 A1 (PARK HONG-BAE) 7 November 2002 (2002-11-07) abstract; figure 3		1-22
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Information on patent family members

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